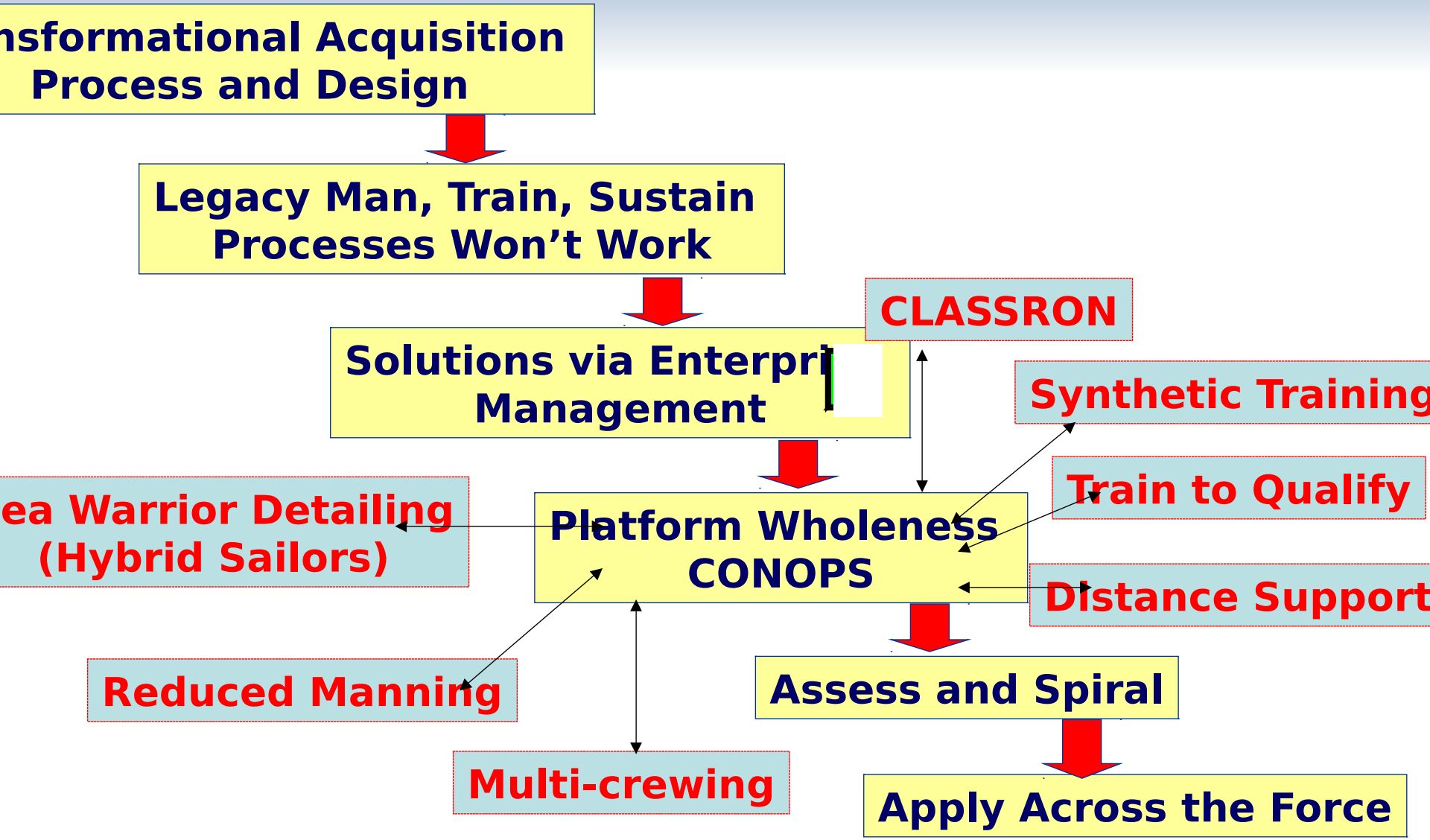
CNSF Major Commander's Conference

CAPT John Riley
LCS CLASSRON Commander
12 June 2007

Transformational Warship



Cardinal Rules

Do not deviate from the CDD. Do not make policy decisions that don't match capability.

Do not covet Aegis or simultaneous multi-mission capability. LCS can do one focused mission at a time.

Do not try to compare LCS to legacy platforms. It cannot be manned, trained, equipped, maintained or tactically employed in the same way. No old think.

Manage expectations. The ship will perform as specified in the CDD. It can do no more and shouldn't be over-sold.

Risk is a given. Embrace it and manage it.

Cardinal Rules

Do not add weight to LCS. For anything added, something else must be removed.

Manage Spirals. An effective spiral plan must balance capability to cost. Ensure spirals address critical needs and provide ROI.

Manpower is a constraint.

Shipboard logistics and maintenance efforts must be focused on achieving operational agility. Processes that are focused on sustainability should be accomplished either ashore or at the sea base.

Attack all LCS issues with the speed of heat. It will be here quickly. Be ready.

No Sailor will be disadvantaged (advancement, compensation, education) due to service on LCS.

Key Assumptions

LCS Will Leverage Current Fleet Infrastructure Where Available.

LCS Flight 0 Req’ts Will Be Met With 40 Core, 15 MP And 20 Air Det Crew.

Where practical, a common infrastructure will be used.

The Majority Of LCS Maintenance Will Be Completed During In Port Periods.

Collateral Duties Cannot All Be Performed By Shipboard Personnel.

Need to leverage distance support.

Information Technology Solutions will Enable Adequate Reachback.

Must comply with fleet bandwidth constraints.

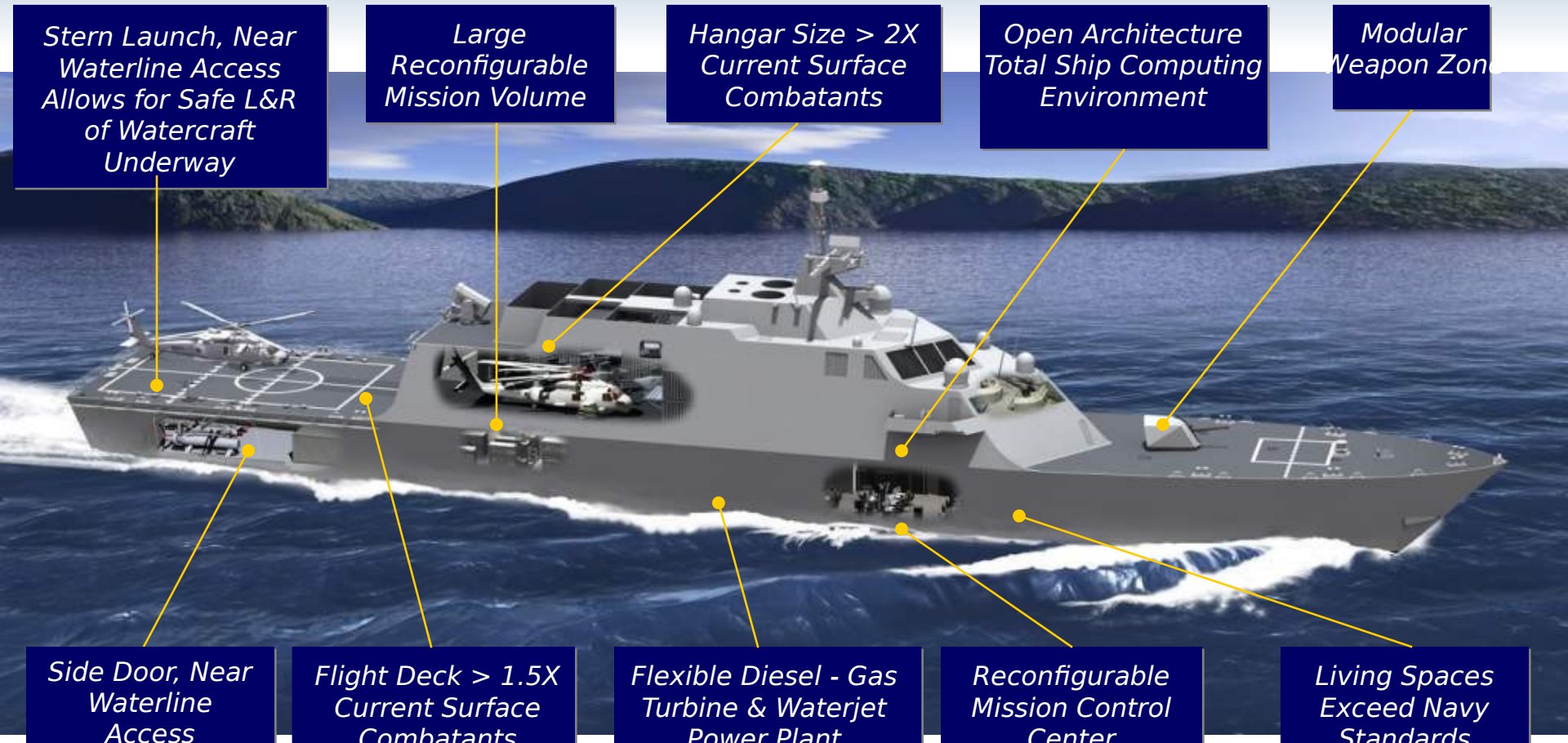
LCS Seaframes

LOCKHEED MARTIN
We never forget who we're working for™

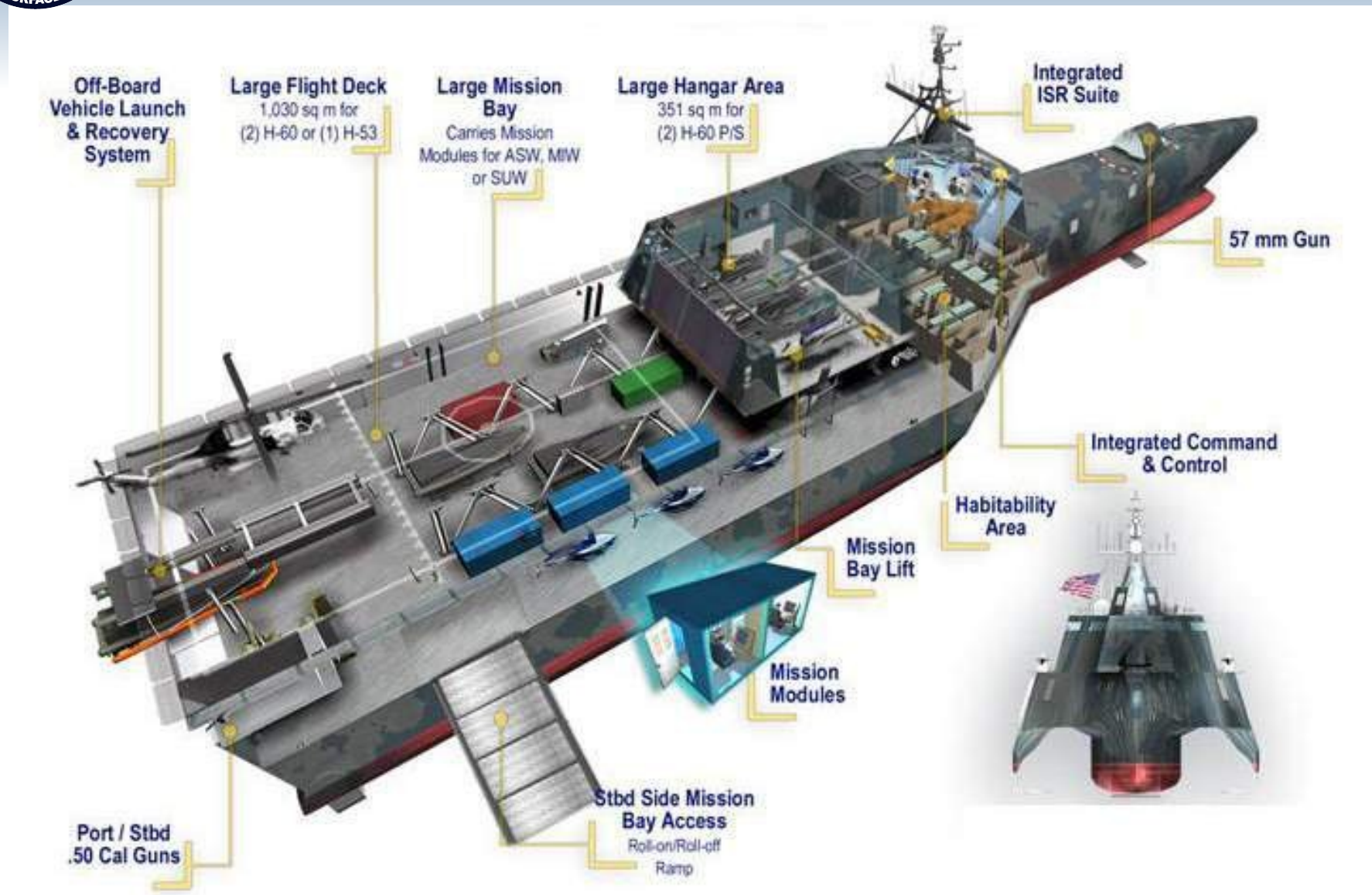
GENERAL DYNAMICS
Strength On Your Side®

- Non-traditional hull forms
- Non-traditional materials
- Non-traditional construction practices
- Non-traditional system suppliers
- CODAG propulsion
- Water jet drive (x4)
- Modular Open Systems Approach
- Open Computing Architecture
- Automation

Lockheed Martin Design


Stern Launch, Near Waterline Access Allows for Safe L&R of Watercraft Underway
Large Reconfigurable Mission Volume
Hangar Size > 2X Current Surface Combatants
Open Architecture Total Ship Computing Environment
Modular Weapon Zone
Side Door, Near Waterline Access
Flight Deck > 1.5X Current Surface Combatants
Flexible Diesel - Gas Turbine & Waterjet Power Plant
Reconfigurable Mission Control Center
Living Spaces Exceed Navy Standards

General Dynamics Design


Off-Board Vehicle Launch & Recovery System
Large Flight Deck
1,030 sq m for (2) H-60 or (1) H-53
Large Mission Bay
Carries Mission Modules for ASW, MIW or SUW
Large Hangar Area
351 sq m for (2) H-60 P/S
Integrated ISR Suite
57 mm Gun
Integrated Command & Control
Habitability Area
Mission Bay Lift
Mission Modules
Stbd Side Mission Bay Access
Roll-on/Roll-off Ramp
Port / Stbd .50 Cal Guns

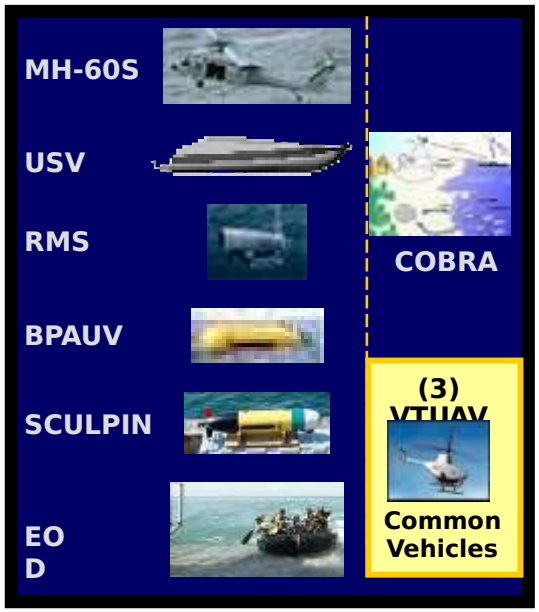
LCS as a System of Systems

Lockheed Martin

ibbs & Cox • Marinette Marine • Bollinger Shipyards

General Dynamics

Iron Works • Austal • BAE Systems • CAE • M



MIW Mission Package

ASW Mission Package

SUW Mission Package

Ship Delivery Status

Lockheed Martin (USS FREEDOM) – Marinette, WI

Launch/Christening September 2006

Delivery May 2008

Sail Away August 2008

Arrive San Diego April 2009

General Dynamics (USS INDEPENDENCE)– Austal Shipyard, Mobile, AL

Keel-laying January 2006

Delivery June 2008

Arrive San Diego April 2009

Two Prime Contractors Given Specifications by Navy and Used Different Design Approaches to Achieve the Same Results

CS Revised Acquisition Strategy

- **SECNAV and CNO briefed on significant of cost growth in JAN**
- **LCS 3 stop work order issued on 12 JAN**
- **SECNAV announced way ahead on 15 MAR following program review**
- **LCS 3 contract terminated on 12 APR**
- **Cost of Flight 0 seaframes to be closely monitored**
- **Fly-off competition in FY09 to compare operational requirements and modular mission support**
- **Down select to single seaframe in FY09**
- **Full and open competition for Flight 1 FY10 & Follow Ships**

LCS Core Crew

CO LCS 1 **CDR**

XO LCS 2 **LCDR**

SEL LCS 3 CMDMC

Officers: 8
Enlisted: 32
Total: 40

- **2 Command**
- **15 Watchstanders**
- **23 Maintainers**

OPS LCS 4 **LT**

AOPS LCS 13 **LTJG**

LCS 5 **QMC**

LCS 6 **BMC**

LCS 7 **BM3**

LCS 8 **BM2**

LCS 9 **OSC**

LCS 10 **OS1**

LCS 11 **OS2**

C5I LCS 12 **LCDR**

EMO LCS 14 **LTJG**

LCS 15 **FCC**

LCS 16 **FC1**

LCS 17 **FC1**

LCS 18 **IT1**

LCS 19 **IT1**

LCS 20 **GMC**

LCS 21 **GM1**

LCS 22 **ET1**

LCS 23 **ET2**

LCS 24 **ET2**

LCS 25 **ET2**

ENG LCS 26 **LCDR**

MPA LCS 27 **LTJG**

LCS 28 **GSMC**

LCS 29 **GSE2**

LCS 30 **EM1**

LCS 31 **DCCS**

LCS 35 **EN3**

LCS 32 **GSMC**

LCS 33 **EN1**

LCS 34 **EN2**

LCS 36 **SKC**

LCS 37 **CS1**

LCS 38 **CS2**

LCS 39 **CS3**

LCS 40 **HMC**

USS FREEDOM Adaptive Organization
SEA & ANCHOR DETAIL (SECTION I)

- SECTION II
- SECTION III

CO
LCS 1
Gabrielson

NAV
LCS 2
Doyle

SAFETY
LCS 34
Suarez

SECTION I

OOD LCS 4 Skora	**TAO** **LCS 14** Hurley	**RCO** LCS 32 Whalen
FOCSLE LCS 11 Phillips	**DSO** LCS 17 Mauldin	**EPT** LCS 29 Gallegos
AFTLINE LCS 23 Thomas	**TSCE** LCS 10 Johnson	**GFCS** LCS 19 Albright
LH&R LCS 31 Richars	**FNS** LCS 7 McConnell	**GALLEY** LCS 36 Blackledge
	SUPPO LCS 35 Morrison	

UTILITY

OOD LCS 39 Briggs	**SAFETY** **LCS 3** Jarrett	**HOTEL** LCS 33 Lopez
JOOD LCS 40 Nissen	**AFTLINE** LCS 16 Fox	**HOTEL** LCS 30 Vincent
ANCHOR LCS 27 Crispin	**AFTLINE** LCS 22 Quintanilla	**50 CAL** LCS 18 Dempsey
FWDLINE LCS 12 Siangco	**FNS** LCS 6 Dunning	**FWDLINE** LCS 37 Jefferson

UTILITY

QD OOD LCS 21 Mercier	**CHENG** **LCS 25** **Barrows**	**RCO** LCS 26 Cooper
JOOD LCS 5 Radford	**FANTAIL** LCS 15 Zertuche	**RHIB CX** LCS 28 Acome
50 CAL LCS 24 Cox	**AFTLINE** LCS 9 Smith	**50 CAL** LCS 20 Bishop
FWDLINE LCS 13 Avelar	**FWDLINE** LCS 8 Fooks	**LH&R** LCS 38 Ames

USS FREEDOM Adaptive Organization
FLIGHT QUARTERS (CORE CREW SECTION I)

CO
LCS 1
Gabrielson

XO
LCS 2
Doyle

SAFETY
LCS 34
Suarez

SECTION I

OOD LCS 4 Skora	**TAO** **LCS 14** Hurley	**RCO** LCS 32 Whalen
JOOD LCS 11 Phillips	**DSO** LCS 17 Mauldin	**EPT/JP5** LCS 29 Gallegos
NOZZLE LCS 23 Thomas	**TSCE** LCS 10 Johnson	**GFCS** LCS 19 Albright
LH&R LCS 31 Richars	**FNS** LCS 7 McConnell	**GALLEY** LCS 36 Blackledge
	LH&R LCS 35 Morrison	

FLIGHT QUARTERS TEAM

OOD LCS 39 Briggs	**TAO** **LCS 3** Jarrett	**SL** LCS 33 Lopez
HCO LCS 40 Nissen	**HOSE** LCS 16 Fox	**RHIB CX** LCS 30 Vincent
FLTDK LCS 27 Crispin	**FLTDK** LCS 22 Quintanilla	**HOTSUIT** LCS 18 Dempsey
LSE LCS 12 Siangco	**ASTAC** LCS 6 Dunning	**HOTSUIT** LCS 37 Jefferson

SECTION III

OOD LCS 21 Mercier	**TAO** **LCS 25** **Barrows**	**RCO** LCS 26 Cooper
JOOD LCS 5 Radford	**DSO** LCS 15 Zertuche	**EPT** LCS 28 Acome
LH&R LCS 24 Cox	**TSCE** LCS 9 Smith	**PLUG** LCS 20 Bishop
SAR LCS 13 Avelar	**FNS** LCS 8 Fooks	**GALLEY** LCS 38 Ames

USS FREEDOM Adaptive Organization
UNDERWAY REPLENISHMENT (FUEL)

CO
LCS 1
Gabrielson

B2B RT
LCS 2
Doyle

SAFETY
LCS 34
Suarez

UTILITY

OOD LCS 4 Skora	**TAO** **LCS 14** Hurley	**RCO** LCS 32 Whalen
RIG CAP LCS 11 Phillips	**LINE** LCS 17 Mauldin	**TESTER** LCS 29 Gallegos
LINE LCS 23 Thomas	**LINE** LCS 10 Johnson	**LINE** LCS 19 Albright
SAMPLE LCS 31 Richars	**FNS** LCS 7 McConnell	**GALLEY** LCS 36 Blackledge
	SUPPO LCS 35 Morrison	

UTILITY

OOD LCS 39 Briggs	**SAFETY** **LCS 3** Jarrett	**RCO** LCS 33 Lopez
LASER LCS 40 Nissen	**DSO** LCS 16 Fox	**PHONE** LCS 30 Vincent
SAMPLE LCS 27 Crispin	**LINE** LCS 22 Quintanilla	**LINE** LCS 18 Dempsey
SIGNAL LCS 12 Siangco	**FNS** LCS 6 Dunning	**LINE** LCS 37 Jefferson

SECTION III

OOD LCS 21 Mercier	**CCS** **LCS 25** **Barrows**	**FUELS** LCS 26 Cooper
JOOD LCS 5 Radford	**DSO** LCS 15 Zertuche	**EPT** LCS 28 Acome
LINE LCS 24 Cox	**TSCE** LCS 9 Smith	**SHOTLN** LCS 20 Bishop
RIGGER LCS 13 Avelar	**FNS** LCS 8 Fooks	**LINE** LCS 38 Ames

Train to Qualify (T2Q) Toolkit

Not Your Daddy's PQS!

Old: Subjective based on SME/Qualifier.
New: Detailed Measures, Metrics and Standards to Amplify Line

Shore Support Architecture

REMOTE SUPPORT

Key Tenets…

- ***Single Decision Center***
- ***Integrated IT Push/Pull***
- ***Single Funding Source***

CLASSRON

MSD LST&MST

FISC ***RMC***

Mission Pkg

Maint Support Team-- POE to Maintenance Support

- Engineering
- Shipyards
- Repair Facilities
- Tech Assist
- AIMD
- ISEA

POE to Training and Admin Support

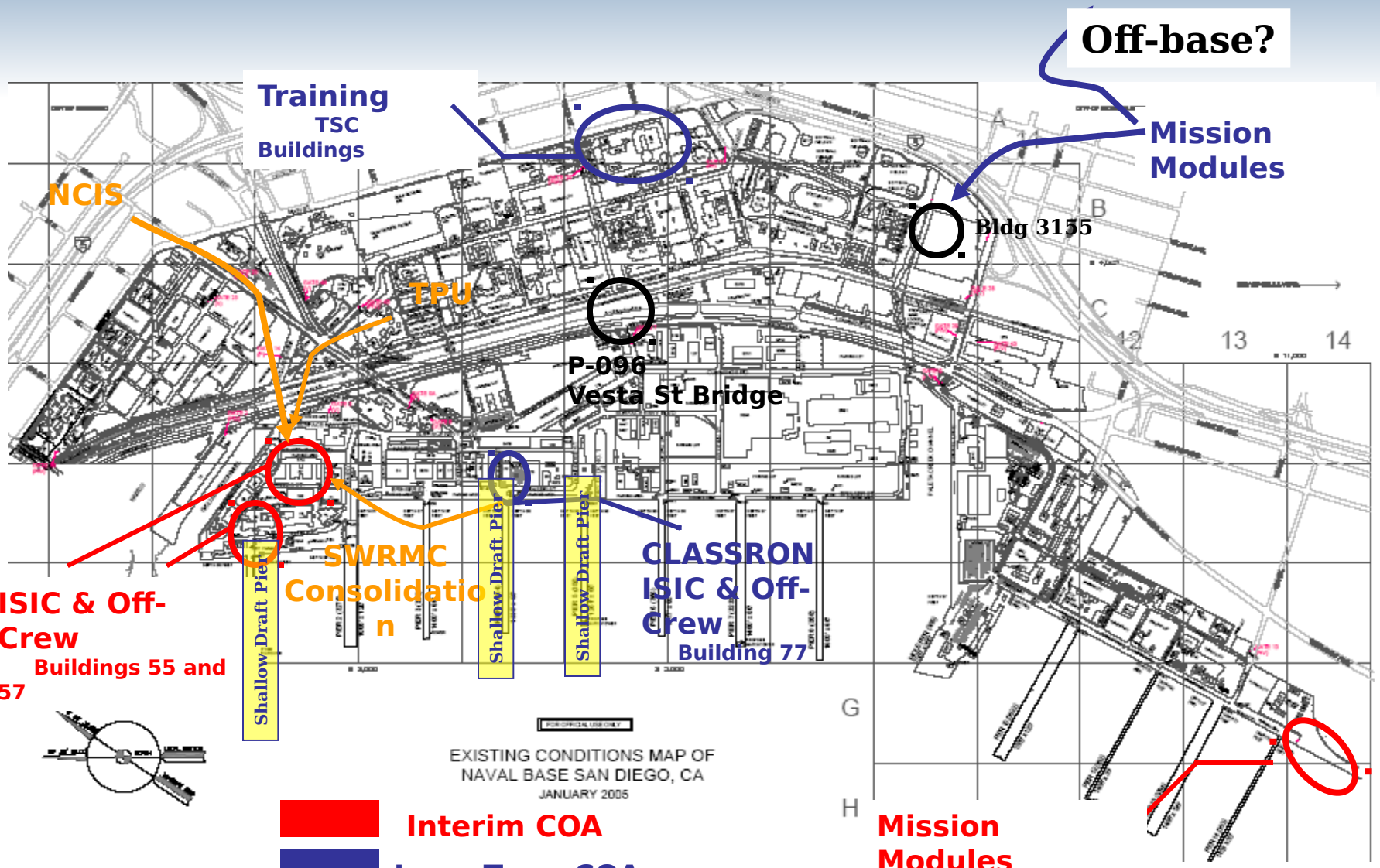
- ATG
- TSC
- PSD Afloat Section
- NPC
- EPMAC

Interface to Mission Package support…

- NAVSEA PMS 420
- Mission Package Support Facility

- **Logistic Support Team-- POE to Logistics Support**
  - DLA Fuel & Parts
  - NAVICP
  - ASD
  - FISC
  - NOLSC

Overview Map



Summary

LCS is Transformational
We Must Adapt Processes And Approach

Questions?